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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: Tue Jun 19 13:17:19 EDT 2007

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Application No: 10817530 Version No: 3.0

Input Set:

Output Set:

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Finished: 2007-06-18 14:39:02.789
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 412 ms
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Total Errors: 0
No. of SeqIDs Defined: 17
Actual SeqID Count: 17

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<110> Braun, Werner
Mathura, Venkatarajan S.
Schein, Catherine H.

<120> PHYSICAL-CHEMICAL PROPERTY BASED SEQUENCE MOTIFS AND METHODS
REGARDING SAME

<130> 265.00400101

<140> 10817530

<141> 2004-04-02

<150> 10/817,530

<151> 2004-04-02

<150> US 60/460,769

<151> 2003-04-04

<160> 17

<170> PatentIn version 3.3

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<212> PRT

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Ala Thr Leu Lys Ile Cys Ser Trp Asn Val Asp Gly Leu Arg Ala Trp
20 25 30

Ile Lys Lys Lys Gly Leu Asp Trp Val Lys Glu Glu Ala Pro Asp Ile

35

40

45

Leu Cys Leu Gln Glu Thr Lys Cys Ser Glu Asn Lys Leu Pro Ala Glu
 50 55 60

Leu Gln Glu Leu Pro Gly Leu Ser His Gln Tyr Trp Ser Ala Pro Ser
 65 70 75 80

Asp Lys Glu Gly Tyr Ser Gly Val Gly Leu Leu Ser Arg Gln Cys Pro
 85 90 95

Leu Lys Val Ser Tyr Gly Ile Gly Asp Glu Glu His Asp Gln Glu Gly
 100 105 110

Arg Val Ile Val Ala Glu Phe Asp Ser Phe Val Leu Val Thr Ala Tyr
 115 120 125

Val Pro Asn Ala Gly Arg Gly Leu Val Arg Leu Glu Tyr Arg Gln Arg
 130 135 140

Trp Asp Glu Ala Phe Arg Lys Phe Leu Lys Gly Leu Ala Ser Arg Lys
 145 150 155 160

Pro Leu Val Leu Cys Gly Asp Leu Asn Val Ala His Glu Glu Ile Asp
 165 170 175

Leu Arg Asn Pro Lys Gly Asn Lys Lys Asn Ala Gly Phe Thr Pro Gln
 180 185 190

Glu Arg Gln Gly Phe Gly Glu Leu Leu Gln Ala Val Pro Leu Ala Asp
 195 200 205

Ser Phe Arg His Leu Tyr Pro Asn Thr Pro Tyr Ala Tyr Thr Phe Trp
 210 215 220

Thr Tyr Met Met Asn Ala Arg Ser Lys Asn Val Gly Trp Arg Leu Asp
 225 230 235 240

Tyr Phe Leu Leu Ser His Ser Leu Leu Pro Ala Leu Cys Asp Ser Lys
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Ile Arg Ser Lys Ala Leu Gly Ser Asp His Cys Pro Ile Thr Leu Tyr
 260 265 270

Leu Ala Leu
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Gln Leu Glu Ala Ile Val Glu Lys His Gln Pro Asp Val Ile Gly Leu
20 25 30

Gln Glu Thr Lys Val His Asp Asp Met Phe Pro Leu Glu Glu Val Ala
35 40 45

Lys Leu Gly Tyr Asn Val Phe Tyr His Gly Gln Lys Gly His Tyr Gly
50 55 60

Val Ala Leu Leu Thr Lys Glu Thr Pro Ile Ala Val Arg Arg Gly Phe
65 70 75 80

Pro Gly Asp Asp Glu Glu Ala Gln Arg Arg Ile Ile Met Ala Glu Ile
85 90 95

Pro Ser Leu Leu Gly Asn Val Thr Val Ile Asn Gly Tyr Phe Pro Gln
100 105 110

Gly Glu Ser Arg Asp His Pro Ile Lys Phe Pro Ala Lys Ala Gln Phe
115 120 125

Tyr Gln Asn Leu Gln Asn Tyr Leu Glu Thr Glu Leu Lys Arg Asp Asn
130 135 140

Pro Val Leu Ile Met Gly Asp Met Asn Ile Ser Pro Thr Asp Leu Asp
145 150 155 160

Ile Gly Ile Gly Glu Glu Asn Arg Lys Arg Trp Leu Arg Thr Gly Lys

165

170

175

Cys Ser Phe Leu Pro Glu Glu Arg Glu Trp Met Asp Arg Leu Met Ser
 180 185 190

Trp Gly Leu Val Asp Thr Phe Arg His Ala Asn Pro Gln Thr Ala Asp
 195 200 205

Arg Phe Ser Trp Phe Asp Tyr Arg Ser Lys Gly Phe Asp Asp Asn Arg
 210 215 220

Gly Leu Arg Ile Asp Leu Leu Leu Ala Ser Gln Pro Leu Ala Glu Cys
 225 230 235 240

Cys Val Glu Thr Gly Ile Asp Tyr Glu Ile Arg Ser Met Glu Lys Pro
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Ser Asp His Ala Pro Val Trp Ala Thr Phe Arg Arg
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Ser Asn Ala Thr Leu Ala Ser Tyr Ile Val Arg Ile Val Arg Arg Tyr
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Asp Ile Val Leu Ile Gln Glu Val Arg Asp Ser His Leu Val Ala Val
 35 40 45

Gly Lys Leu Leu Asp Tyr Leu Asn Gln Asp Asp Pro Asn Thr Tyr His
 50 55 60

Tyr Val Val Ser Glu Pro Leu Gly Arg Asn Ser Tyr Lys Glu Arg Tyr
 65 70 75 80

Leu Phe Leu Phe Arg Pro Asn Lys Val Ser Val Leu Asp Thr Tyr Gln
85 90 95

Tyr Asp Asp Gly Cys Cys Gly Asn Asp Ser Phe Ser Arg Glu Pro Ala
100 105 110

Val Val Lys Phe Ser Ser His Ser Thr Lys Val Lys Glu Phe Ala Ile
115 120 125

Val Ala Leu His Ser Ala Pro Ser Asp Ala Val Ala Glu Ile Asn Ser
130 135 140

Leu Tyr Asp Val Tyr Leu Asp Val Gln Gln Lys Trp His Leu Asn Asp
145 150 155 160

Val Met Leu Met Gly Asp Phe Asn Ala Asp Cys Ser Tyr Val Thr Ser
165 170 175

Ser Gln Trp Ser Ser Ile Arg Leu Arg Thr Ser Ser Thr Phe Gln Trp
180 185 190

Leu Ile Pro Asp Ser Ala Asp Thr Thr Ala Thr Ser Thr Asn Cys Ala
195 200 205

Tyr Asp Arg Ile Val Val Ala Gly Ser Leu Leu Gln Ser Ser Val Val
210 215 220

Pro Gly Ser Ala Ala Pro Phe Asp Phe Gln Ala Ala Tyr Gly Leu Ser
225 230 235 240

Asn Glu Met Ala Leu Ala Ile Ser Asp His Tyr Pro Val Glu Val Thr
245 250 255

Leu Thr

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| Tyr | Asp | Pro | Ile | His | Glu | Tyr | Val | Asn | His | Glu | Leu | Arg | Lys | Arg | Glu | 1 | 5 | 10 | 15 |
| Asn | Glu | Phe | Ser | Glu | His | Lys | Asn | Val | Lys | Ile | Phe | Val | Ala | Ser | Tyr | 20 | 25 | 30 | |
| Asn | Leu | Asn | Gly | Cys | Ser | Ala | Thr | Thr | Lys | Leu | Glu | Asn | Trp | Leu | Phe | 35 | 40 | 45 | |
| Pro | Glu | Asn | Thr | Pro | Leu | Ala | Asp | Ile | Tyr | Val | Val | Gly | Phe | Gln | Glu | 50 | 55 | 60 | |
| Ile | Val | Gln | Leu | Thr | Ser | Ala | Asp | Pro | Ala | Lys | Arg | Arg | Glu | Trp | Glu | 65 | 70 | 75 | 80 |
| Ser | Cys | Val | Lys | Arg | Leu | Leu | Asn | Gly | Lys | Cys | Thr | Ser | Gly | Pro | Gly | 85 | 90 | 95 | |
| Tyr | Val | Gln | Leu | Arg | Ser | Gly | Gln | Leu | Val | Gly | Thr | Ala | Leu | Met | Ile | 100 | 105 | 110 | |
| Phe | Cys | Lys | Glu | Ser | Cys | Leu | Pro | Ser | Ile | Lys | Asn | Val | Glu | Gly | Thr | 115 | 120 | 125 | |
| Val | Lys | Lys | Thr | Gly | Leu | Gly | Asn | Lys | Gly | Ala | Val | Ala | Ile | Arg | Phe | 130 | 135 | 140 | |
| Asp | Tyr | Glu | Asp | Thr | Gly | Leu | Cys | Phe | Ile | Thr | Ser | His | Leu | Ala | Ala | 145 | 150 | 155 | 160 |
| Gly | Tyr | Thr | Asn | Tyr | Asp | Glu | Arg | Asp | His | Asp | Tyr | Arg | Thr | Ile | Ala | 165 | 170 | 175 | |
| Ser | Gly | Leu | Arg | Phe | Arg | Arg | Gly | Arg | Ser | Ile | Phe | Asn | His | Asp | Tyr | 180 | 185 | 190 | |
| Val | Val | Trp | Phe | Gly | Asp | Phe | Asn | Tyr | Arg | Ile | Ser | Leu | Thr | Tyr | Glu | 195 | 200 | 205 | |
| Glu | Val | Val | Pro | Cys | Ile | Ala | Gln | Gly | Lys | Leu | Ser | Tyr | Leu | Phe | Glu | 210 | 215 | 220 | |

Tyr Asp Gln Leu Asn Lys Gln Met Leu Thr Gly Lys Val Phe Pro Phe
225 230 235 240

Phe Ser Glu Leu Pro Ile Thr Phe Pro Pro Thr Tyr Lys Phe Asp Ile
245 250 255

Gly Thr Asp Ile Tyr Asp Thr Ser Asp Lys His Arg Val Pro Ala Trp
260 265 270

Thr Asp Arg Ile Leu Tyr Arg Gly Glu Leu Val Pro His Ser Tyr Gln
275 280 285

Ser Val Pro Leu Tyr Tyr Ser Asp His Arg Pro Ile Tyr Ala Thr Tyr
290 295 300

Glu Ala Asn Ile Val Lys Val Asp Arg Glu Lys Lys Lys Ile Leu Phe
305 310 315 320

Glu Glu Leu Tyr Asn Gln Arg Lys Gln Glu Val Arg Asp Ala Ser Gln
325 330 335

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Lys Glu Gly Tyr Ser Gly Val Gly Leu Leu Ser Arg Gln Cys Pro
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Glu Phe Asp Ser Phe Val Leu
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Arg Leu Glu Tyr Arg Gln Arg Trp
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Gly Phe Thr Pro Gln Glu Arg Gln Gly Phe Gly Glu Leu
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Ser Leu

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Gly Ser Asp His Cys Pro Ile
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